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This is a continuation-in-part of the U.S. Patent application entitled
" GENERATING POSITIONAL REALITY USING RTK GPS INTEGRATED
WITH SCANNING LASERS", Serial Number No. 09/369,033, filed on August 4,
1999. *New PAT No. 6, 677, 938.*

1. Field of the Invention.

The present invention is in the field of the RTK GPS integrated with
scanning lasers. More specifically, the present invention relates to the field of
blind vehicle navigation by using positional reality images of real site.

2. Discussion of the Prior Art.

Computer games and simulators have introduced the term "Virtual Reality"
to our vocabularies. Virtual Reality is the concept of viewing scenes in three
dimensions giving the viewer the feeling of being in the scene. Many of the Virtual
Reality Scenarios are done with imagery, with no dimensional or positional
integrity.

On the other hand, in a real time simulator, the dimensional or positional
integrity of an image can become very important. Indeed, if a simulator's job is to
simulate driving the Indy 500, then the track, wall locations etc. need to have the
correct dimensions. The same is true if you want to play a simulated hole of Golf
at Augusta, you would like the fairways and greens to have the look and feel of the
real Golf Course.

Conventional survey techniques as well as Real Time Kinematic Global